



IFWO

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/790,224A

DATE: 09/01/2004

TIME: 13:36:00

Input Set : D:\OP1741seqUS.txt

Output Set: N:\CRF4\09012004\J790224A.raw

3 <110> APPLICANT: Yumi Matsuzaki, Jun Nakamura and Kenichi Hashiguchi
 5 <120> TITLE OF INVENTION: Method for producing L-arginine or L-lysine by fermentation
 7 <130> FILE REFERENCE: US-162
 9 <140> CURRENT APPLICATION NUMBER: US/10/790,224A
 10 <141> CURRENT FILING DATE: 2004-03-02
 12 <150> PRIOR APPLICATION NUMBER: JP 2003-056129
 13 <151> PRIOR FILING DATE: 2003-03-03
 15 <160> NUMBER OF SEQ ID NOS: 24
 17 <170> SOFTWARE: PatentIn Ver. 2.0
 20 <210> SEQ ID NO: 1
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 22 <212> TYPE: DNA
 23 <213> ORGANISM: Artificial Sequence
 25 <220> FEATURE:
 26 <223> OTHER INFORMATION: Description of Artificial Sequence:primer for PCR
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 53 <210> SEQ ID NO: 4
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 58 <220> FEATURE:
 59 <223> OTHER INFORMATION: Description of Artificial Sequence:primer for PCR
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 64 <210> SEQ ID NO: 5
 65 <211> LENGTH: 23



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67 <213> ORGANISM: Artificial Sequence
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80 <220> FEATURE:
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87 <211> LENGTH: 22
88 <212> TYPE: DNA
89 <213> ORGANISM: Artificial Sequence
91 <220> FEATURE:
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94 <400> SEQUENCE: 7
95 cttcccagta gcaccatacg ac 22
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99 <212> TYPE: DNA
100 <213> ORGANISM: Artificial Sequence
102 <220> FEATURE:
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180 <221> NAME/KEY: CDS
181 <222> LOCATION: (1852)..(2364)
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186 tgggttccct cgcgctgact ggccagccag acaagcgtga agcgttcctg ccaatgccaa 180
187 gcggtgtgga gttctaccct tacggcgaca ccgattactt gcgcaaaatg gtagaaacca 240
188 acccaacgga tgtggtgct atcttctcgc agccaatcca gggtgaaacg ggcgttggtc 300
189 cagcacctga aggattcctc aaggcagtgc gcgagctgtg cgatgagtac ggcattcttg 360
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192 tcggtgcttg tttggccact ggccgtgcag ctgaattgat gaccccaggc aagcacggca 540
193 ccactttcgg tggcaacca gttgcttggt cagctgccaa ggcagtgtg tctgttgctg 600
194 atgacgcttt ctgcgcagaa gttaccgcga agggcgagct gttcaaggta cttcttgcca 660
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197 cggcggacaa cattatccgt ttgaccccg cgtcgggtgat caccgacgaa gaaatcgcag 840
198 acgcagtcaa ggctattgcc gagacaatcg cataaaggac ttaaacttat gacttcacaa 900
199 ccacaggttc gccatttcct ggctgatgat gatctcacc ctgcagagca ggcagagggt 960
200 ttgaccctag ccgcaaagct caaggcagcg ccgttttcgg agcgtccact cgagggaacca 1020
201 aagtccgttg cagttctttt tgataagact tcaactcgta ctgcgttctc cttcgacgcg 1080
202 ggcatcgctc atttgggtgg acatgccatc gtcgtggatt ccggcagctc acagatgggt 1140
203 aagggcgaga ccctgcagga cccgcagct gtattgtccc gctacgtgga agcaattgtg 1200
204 tggcgcacct acgcacacag caatttcac gccatggcgg agacgtccac tgtgcccgtg 1260
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214 gctcagaaag cactgctggt gtggctgctg gcccaaccagc cgaggtaaga c atg tct 1857
215 Met Ser
216 1
217 ctt ggc tca acc ccg tca aca ccg gaa aac tta aat ccc gtg act cgc 1905
218 Leu Gly Ser Thr Pro Ser Thr Pro Glu Asn Leu Asn Pro Val Thr Arg
219 5 10 15
220 act gca cgc caa gct ctc att ttg cag att ttg gac aaa caa aaa gtc 1953
221 Thr Ala Arg Gln Ala Leu Ile Leu Gln Ile Leu Asp Lys Gln Lys Val
222 20 25 30
223 acc agc cag gta caa ctg tct gaa ttg ctg ctg gat gaa ggc atc gat 2001
224 Thr Ser Gln Val Gln Leu Ser Glu Leu Leu Leu Asp Glu Gly Ile Asp
225 35 40 45 50
226 atc acc cag gcc acc ttg tcc cgg gat ctc gat gaa ctc ggt gca cgc 2049
227 Ile Thr Gln Ala Thr Leu Ser Arg Asp Leu Asp Glu Leu Gly Ala Arg
228 55 60 65
229 aag gtt cgc ccc gat ggg gga cgc gcc tac tac gcg gtc ggc cca gta 2097
230 Lys Val Arg Pro Asp Gly Gly Arg Ala Tyr Tyr Ala Val Gly Pro Val
231 70 75 80
232 gat agc atc gcc cgc gaa gat ctc cgg ggt ccg tcg gag aag ctg cgc 2145
233 Asp Ser Ile Ala Arg Glu Asp Leu Arg Gly Pro Ser Glu Lys Leu Arg
234 85 90 95
235 cgc atg ctt gat gaa ctg ctg gtt tct tca gat cat tcc ggc aac atc 2193
236 Arg Met Leu Asp Glu Leu Leu Val Ser Thr Asp His Ser Gly Asn Ile
237 100 105 110
238 gcg atg ctg cgc acc ccg ccg gga gct gcc cag tac ctg gca agt ttc 2241
239 Ala Met Leu Arg Thr Pro Pro Gly Ala Ala Gln Tyr Leu Ala Ser Phe
240 115 120 125 130
241 atc gat agg gtg ggg ctg aaa gaa gtc gtt ggc acc atc gct ggc gat 2289
242 Ile Asp Arg Val Gly Leu Lys Glu Val Val Gly Thr Ile Ala Gly Asp
243 135 140 145
244 gac acc gtt ttt gtt ctc gcc cgt gat ccg ctc aca ggt aaa gaa cta 2337

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245 Asp Thr Val Phe Val Leu Ala Arg Asp Pro Leu Thr Gly Lys Glu Leu
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248 Gly Glu Leu Leu Ser Gly Arg Thr Thr
249          165          170
250 gcttggttaat cgcttggttaa tgcaggcagg taagggtataa cccgagtgtt ttttcgagga 2444
251 ataccaaccc tttcaacaca ataattttct ttaaacadatcc ttgctgtcca ccacggctgg 2504
252 caaggaactt aaaatgaagg agcacacctc atgactaacc gcatcggttct tgcatactcc 2564
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254 atcgcagttt ctctcgacct gggccagggt ggagagaaca tggacaacgt tcgccagcgt 2684
255 gcattggatg ccggtgcagc tgagtccatc gttgttgatg caaaggatga gttcgctgag 2744
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257 tctgcaatct cccgccact gatcgtaag cacctcggtt aggctggcaa gcagttcaac 2864
258 ggtaccacag ttgcacacgg ctgcactggt aagggcaacg accagggttcg tttcgaggtc 2924
259 ggcttcatgg acaccgatcc aaacctggag atcattgcac ctgctcgtga cttcgcatgg 2984
260 acccgcgaca aggttatcgc cttcgccgag gagaacaacg ttccaatcga gcagtccgtg 3044
261 aagtcgccat tctccatcga ccagaacgtc tggggccgag ctattgagac cggttacctg 3104
262 gaagatctgt ggaatgctcc aaccaaggac atctacgat acaccgagga tccagctctg 3164
263 ggtaacgctc cagatgaggt catcatctcc ttcgagggtg gcaagccagt ctccatcgat 3224
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267 atcgagcgcg aactggctcg ctacaagcgt ggcgttgacg cacgttgggc tgaggaagta 3464
268 tacgacggcc tgtggttcgg acctctgaag cgtccctgg acgcgttcat tgattccacc 3524
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273 agaacttcaa gtatttagaa agtagaagaa caccacatgg aacagcacgg aaccaatgaa 3824
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275 gtctccactc atttcgactg ggttttgccc cttatgatg tgttgccctc caaggcacac 3944
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279 ggccgtctgc gcgctggctg ttcccgcac gaccaggtgg caacctgtt ccgcatgtgg 4184
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283 <211> LENGTH: 171
284 <212> TYPE: PRT
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287 <400> SEQUENCE: 16
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291           20           25           30
292 Lys Val Thr Ser Gln Val Gln Leu Ser Glu Leu Leu Leu Asp Glu Gly
293           35           40           45
294 Ile Asp Ile Thr Gln Ala Thr Leu Ser Arg Asp Leu Asp Glu Leu Gly
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